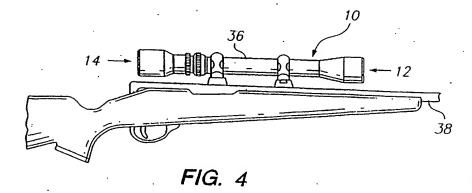
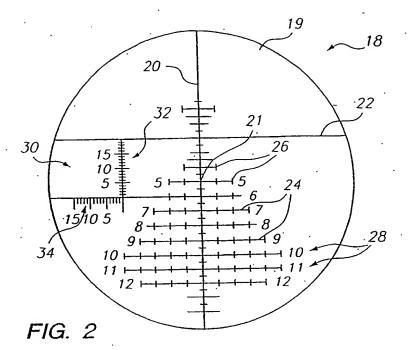
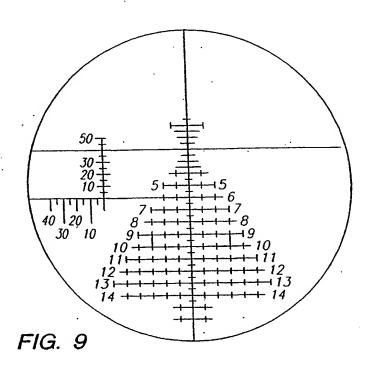


FIG. 3







Sights on at 500 yards. Sights are 3.00 inches above bore. Angle of Departure = 0.21 deg. (Firing angle = 0 deg.)

	500	1000	1500	2000	2500
	0.0	-180	-665	- 1662	-3370
	0.0	-17.2	-42.4	- 79.4	128.7
	450	900	1450	1950	.2450
	6.5	-151	-598	- 1533	-3163 -
	1.4	-15.1	-39.4	- 75.1	-123.3 -
	400	900 -124 -13.2	1400 -535 -36.5	1900 - 1411 - 70.9	2400 -2965 -118.0 -
	350	850	. 1350	1850	2350
	14.4	-101	-477	- 1295	-2774
	3.9	-11.3	-33.8	- 66.9	-112.8
•	300	800	1300	1800	2300
	16.0	-79.7	-424	-1187	-2592
	5.1	-9.5	-31.1	-63.0	-107.6
)	250	750	1250	1750	2250
	16.1	-61.0	-374	- 1085	-2418
	6.2	-7.8	-28.6	-59.2	-102.6 -
	200	700	1200	1700	2200
	14.8	-44.6	-328	-989	-2252
	7.1	-6.1	-26.1	-55.6	-97.8
	150	650	1150	1650	2150
	12.2	-30.5	-286	-899	-2093
	7.8	-4.5	-23.7	-52.1	-93.0
	100	600	1100	1600	2100
	8.3	- 18.4	-247	-816	-1942
	8.0	-2.9	-21.5	-48.7	-88.3
1	50	550	Range (yds) 1050	Range (yds) 1550	2050
	3.3	-8.2	Traj. (in.) –212	Troj. (in.) –738	-1799
	6.2	-1.4	Traj. (MOA) –19.3	Troj. (MOA) –45.5	-83.8
	Range (yds)	Range (yds)	(yds)	(yds)	(yds)
	Troj. (in.)	Traj. (in.)	(in.)	(in.)	(in.)
	Troj. (MOA)	Traj. (MOA).	(MOA)	(MOA)	(MOA)
	Range	Range	Range	Range	Ronge (yds) 2050
	Traj.	Traj.	Traj.	Traj.	Traj. (in.) –1799
	Traj.	Traj.	Traj.	Traj.	Traj. (MOA) –83.8

F/G. 5

	RANGE LIVE FIRE VALUES YARDS		
DATE	DIFFERENCE		
	RANGE 178L LIVE 178L FIRE 178JECTORY DIFFERENCE VALUES YARDS		
·	GRID INCHES OF ANGLE COVERAGE		FIG. 6
WORKSHEET	RANGE		F/G
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SF	SSURE	100 100 100 100 100 100 100 100 100 100	
CALIBER TYPE OF BULLET BULLET WEIGHT EFECTIVE BAL COEFF COEFFICIENT OF FORM	TEMPERATURE ATMOSPHERIC PRE	15 10 5 10 5 10 5 10 5 10 5 10 5 10 5 1	

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DATENOTES	BALLISTIC LIVE LIVE FIRE FIRE VALUES YARDS YARDS	$\begin{array}{c} +8.3 \\ +16. \\ +16. \\ +16. \\ +11.2 \\ -0.2 \\ -18.4 \\ -30.5 \\ +1.5 \\ -0.3 \\ -0.1 \\$	
WORKSHEET	RANGE INCHES YARDS OF ANGLE COVERAGE	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	FIG. 7
CALIBER SO CAI BMG TYPE OF BULLET 750gr AMAX MATCH BULLET WEIGHT 750gr EFECTIVE BAL COEFF 0.750 BAL. COEFF A STP 0.750 COEFFICIENT OF FORM 0.571	1 TITUDE 60.0F FEMPERATURE 50.0F ATMOSPHERIC PRESSURE 30.0 IN.	15 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

5/7-i

																		•									
FIG. 8A	FIG. 8B	F/G. 8	Time	sec.	0.000	400.0	07.0	0.700	0.22.0	0.784	0.740	0.40/	0.477	0.53/	0.604	0.673	0.744	0.876	0.880	0.966	1.045	1.125	1.207	1.292	1.379	1.468	1
	0.500	0 ft. 60.0 f	read	· in/mph	0.0	0.'	9.6 6.6	y.'.	0,4	5.0	0.0	7.7	8.3 .3	9.5	10.6	11.8	13.1	4.4	15.7	17.0	18.4	19.8	21.2	22.7	24.3	25.8	1
.50 BMG	ber of Form		Drop	5	0:0	0.6	2.3	5.2	4.6	15.0	21.9	30.4	40.3	51.9	65.2	80.2	97.2	116.1	137.1	160.3	185.7	213.6	244.1	277.2	313.2	352.2	1 .
	ingalis (able) Bullet Caliber Coefficient of	Altitude Temperatu	. Defl.	ij	0.0	0.7	4.0	1.0	1.8	2.8	4.	5.7	7.5	9.6	. 12.0	14.7	17.7	21.1	. 24.7	28.7	33.0	37.7	42.8	48.7	54.1	60.3	
	busn		Mx. Ord.	'n.	0.0	0.1	9.0	1.3	2.4	3.9	5.7	8.0	10.7	13.9	17.6	21.8	26.7	32.1	38.2	45.1	52.7	61.2	70.5	807	020	104.4	
Hunting Shack 750 Gr	(Calculated750 grains0.429		Momentum	1bsec.	9.3247	9.1130	8.9040	8.6976	8.4943	8.2945	8.0979	7.9046	7.7146	7.5278	7.3442	7.1637	6.9864	6.8122	6.6410	6,4729	6.3078	6.1456	5.9864	5 8 300	5,6204	5,5319	
	ht Jensity	Bal. Coeff nd aric oressure	`	11-15.	13054.6	12468.5	11903.1	11357.7	10833.0	10329.2	9845.5	9381.1	8935.5	8508.0	8098.0	7705.0	7328.3	6967.3	6621.6	6290.6	59737	5670.5	53805	77000	0.00	4504 5	2:1
_	Bullet We Sectional	Effective Ba Cross wind	Velocity	60.5	2800	2736	2674	2612	2551	2491	2432	2374	2317	2260	2205	2151	2008	2046	1994	1944	1804	1845	1708	7764	10/1	1661	1001
	70°.		Ronge	Spice	0	50	001	150	200	250	300	350	808 008	450	004	200 550	000	059 059	202	750	200	. 020		000	000	0000	201

(X	3	
ĺ	1 1 1		

	900./	1.653	1.750	1.849	1.950	2.055	2.162	2.272	2.385	2.500	2.619	2.741	2.865	2.992	3.122	3.254	3.388	3.525	3.664	3.805	3.949	4.094	4.242	4.391	4.542	4,695	4.850	5.007
	4.17	29.1	. 30.8	32.5	34.3	36.2	38.0	40.0	42.0	44.0	. 46.1	48.2	50.4	52.7	54.9	57.3	59.6	62.0	64.5	67.0	69.5	72.1	74.7	77.3	79.9	82.6	85.4	88.1
	0.450	439.7	488.7	541.3	597.8	658.3	723.2	792.6	866.9	946.3	1031.1	1121.4	1217.7	1320.3	1429.2	1544.7	1666.9	1795.9	1931.9	2075.0	2225.5	2383.3	2548.7	2721.9	2902.8	3091.8	3289.0	3494.2
1 0 0	0.70	74.1	81.7	89.7	98.1	107.1	116.5	126.4	136.9	147.8	159.3	171.2	183.7	196.6	210.0	223.8	238.1	252.7	267.8	283.2	299.0	315.2	331.7	348.6	365.8	383.3	401.2	419.3
1 1 1	6.//	132.6	148.6	166.1	185.0	. 205.4	227.6	. 251.5	277.4	305.4	335.5	367.9	402.8	440.2	480.5	523.7	569.8	618.7	670.5	725.3	783.0	843.8	907.7	974.8	1045.0	1118.4	1195.0	1274.8
1000	2,2007	5.2482	5.1119	4.9791	4.8498	4.7238	4.6011	4.4826	4.3700	4.2629	4.1610	4.0640	3.9745	3.8924	3.8166	3.7465	3.6812	3.6203	3.5632	3.5095	3.4590	3.4112	3.3660	3.3231	3.2822	3.2433	3.2062	3.1699
10000	4000.9	4135.4	3923.3	3722.1	3531.3	3350.2	3178.4	3016.8	2867.1	2728.4	2599.4	2479.7	2371.7	2274.7	2187.0	2107.4	2034.6	1967.8	1906.2	1849.2	1796.3	1747.1	1701.0	1657.9	1617.5	1579.4	1543.4	1508.7
1 1 9 9 9 9	0/0/	1576	1535	1495	1456	1418	1382	1346	1312	1280	1249	1220	1193	1169	1146	1125	1105	1087	1070	1054	1039	1024	1011	866	986	974	963	952
1 665	2	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450

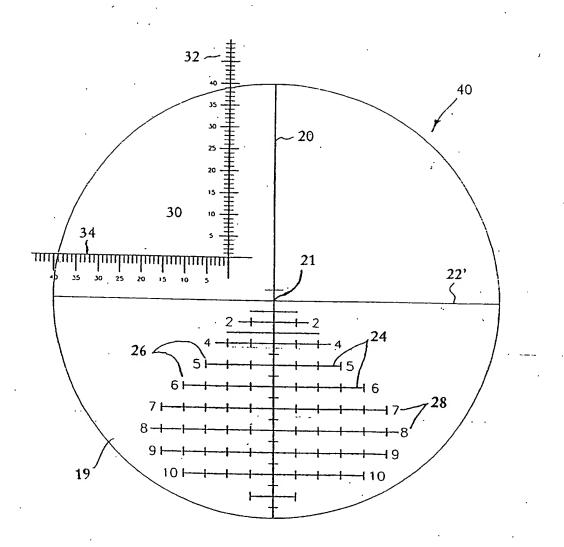


Fig. 10

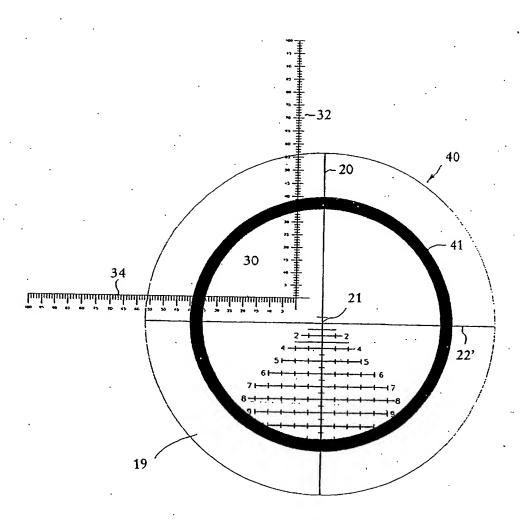


Fig. 11

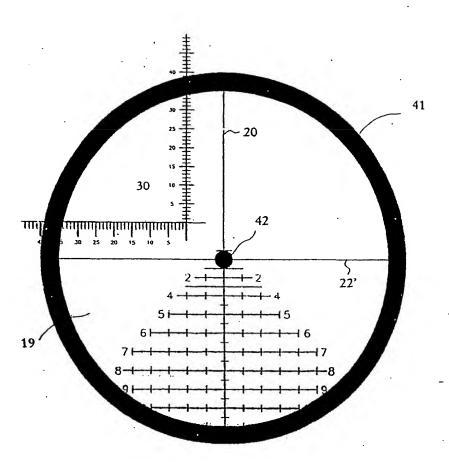


Fig. 12

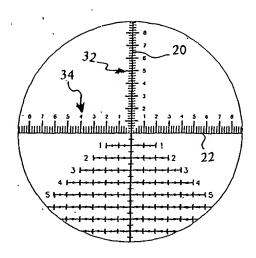


FIG 13

FIG 14

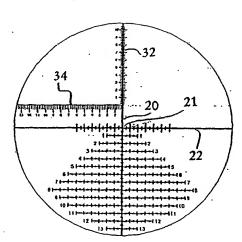


FIG 15

PCT/US2004/037947 WU 2005/04/805

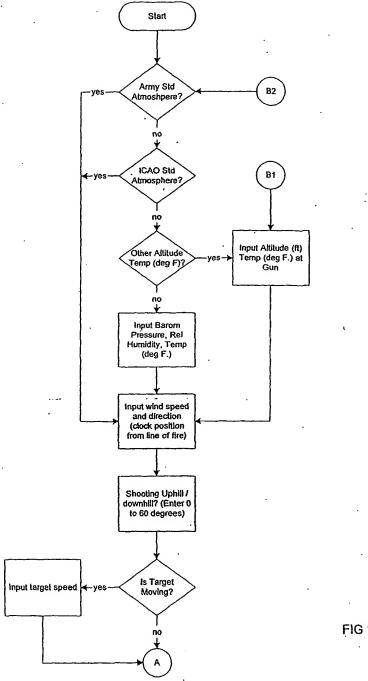
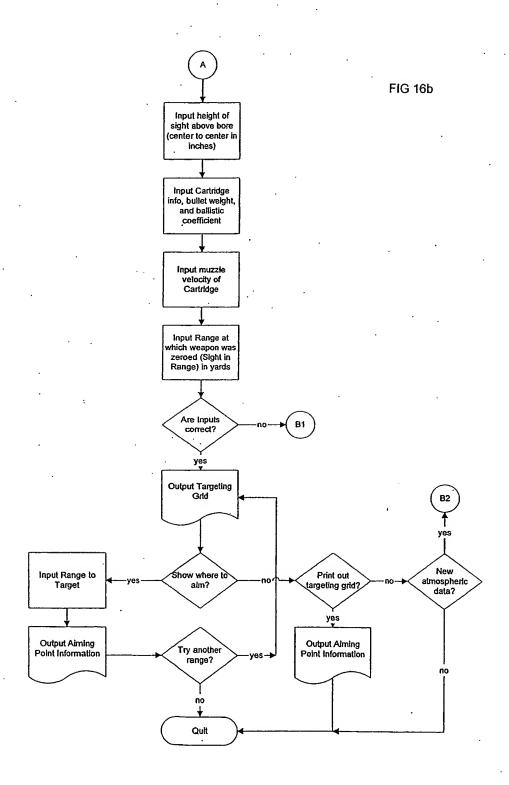


FIG 16a



PCT/US2004/037947

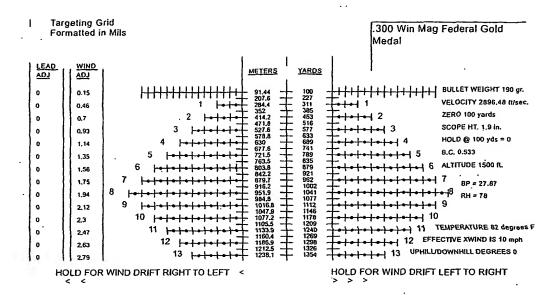


FIG. 17A

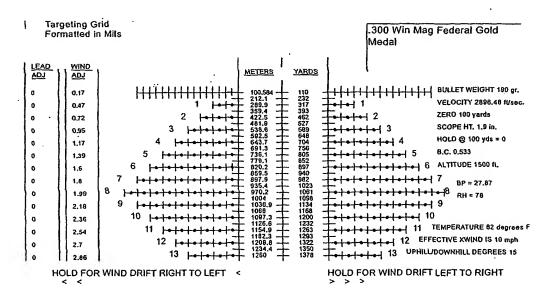


FIG. 17B

WO 2005/047805 PC17052004/037947

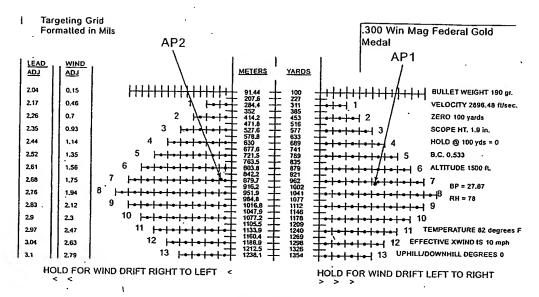


FIG. 17C



FIG. 18A

WU 2005/047605 PCT/US2004/037947

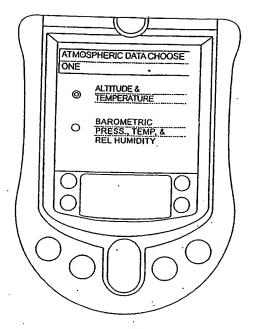


FIG. 18B

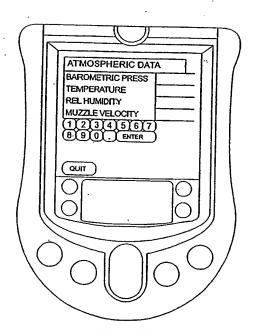


FIG. 18C

PCT/US2004/037947

TARGET DATA
WIND SPEED
WIND FROM 7 O'CLOCK
UP/DOWNHILL/DEGREE
TARGET SPEED? MPH
(1) 2) 3) 4) 5) 6) 7
8) 9) 0) ENTER

W U 2005/04/805

FIG. 18D

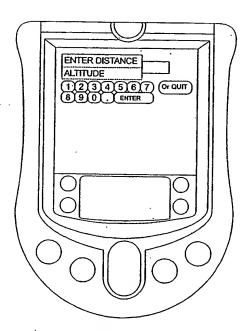


FIG. 18E

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+

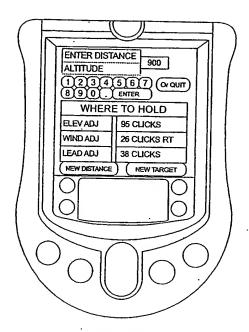


FIG. 18F

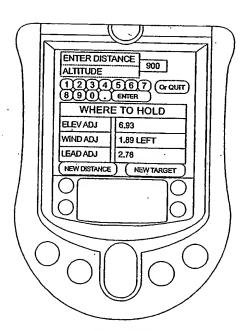


FIG. 18G

	·	
Gun Rtmsphr Target	Rtrag2P	Range Card Setup Main Range Elew Wind Lead 275 11.0 2.0 30.0 5 300 13.0 2.0 31.0 325 16.0 2.0 31.0 350 18.0 2.0 31.0 375 21.0 2.0 31.0 400 23.0 3.0 32.0 425 26.0 3.0 32.0 450 29.0 3.0 32.0 475 31.0 3.0 33.0 500 34.0 3.0 33.0 525 37.0 3.0 33.0 550 40.0 4.0 33.0
Relative Humidity (%) Don't forget about the Decimal 1 2 3 4 5 6 7 8 9 0 . Done Cancel Prey Nest -	Gun Information Bore Height (inchs) Builtet Weight (grains) C1 Coefficient Muzzle Velocity (fps) Zero Range (yards) Don't forget about the Decimal [1234567890] Done Cancel Prey Nest	Wind Speed (mph) Wind Direction (clock) Inclination Angle Target Speed (mph) Target Range (yards) 1000 1234567890. Done Cancel Prev Nest
MilDat Range Finder When using WiDTH to size a target, Up/Dwn Angle does not effect range calculation but will effect bullet drop. Using Target Using Target Height Width Target Size Mil.s 1 Angle 11 Range 982 Y M 11234567890. Done Cancel Prey Next	Range Calc When using WIDTH to size a target, Up/Dwn fingle does not effect range calculation but will effect bullet drop. UsingTarget Height Width Target Size	SampleGun WIN 308 WARBIRD 50 BMG Custom Load LarryGun StoreRsNev Modify Sel Fetch Sel Cancel
SampleGun01 D E M RngCard Gun	Latitude N S 33 Dir of fire from North 88 Wind Speed (mph) 10 Wind Direction (clock) 9 Indination fingle 12 Target Speed (mph) 2 Target Range (yards) 2200 1 2 3 4 5 6 7 8 9 0 . Done Cancel Prev Next	Gun Information Bore Height (inchs) 1.9 Builet Weight (grains) 190 Butlet Diam (inchs) 0.5 C1 Coefficient 0.533 Rifle Twist (in/turn) BR L Muzzle Velocity (fps) 2900 Zero Range (yards) 100 (1234567890. Done Cancel Prey Next

FIG. 18H

FIG. 19A

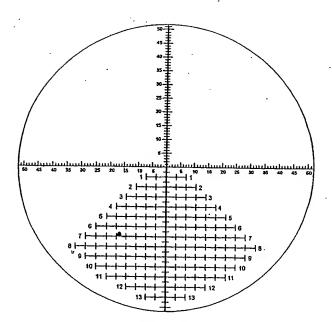


FIG. 19B

FIG. 19C

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VI O 2005/04/805 PC1/US2004/037947

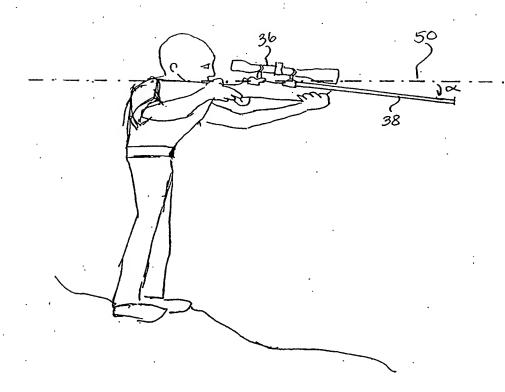


FIG. 20

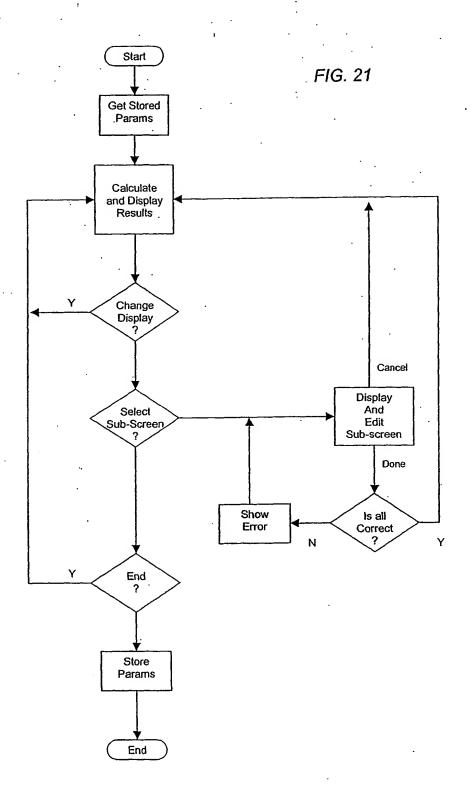
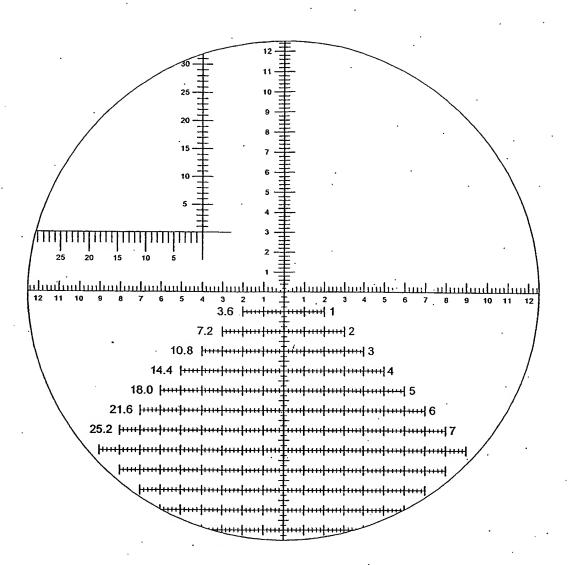
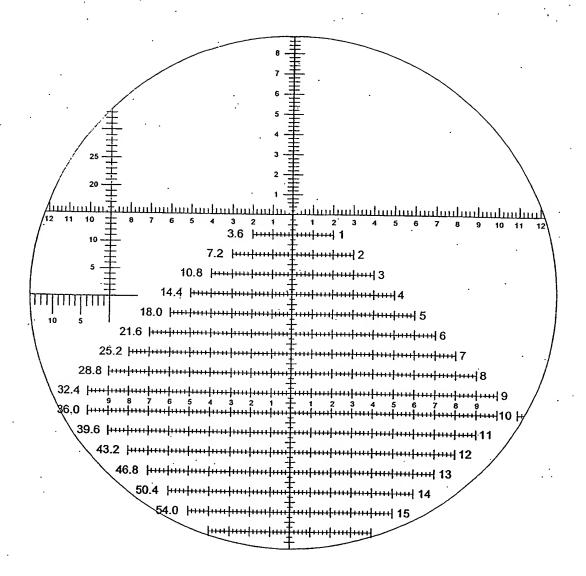


FIG. 22



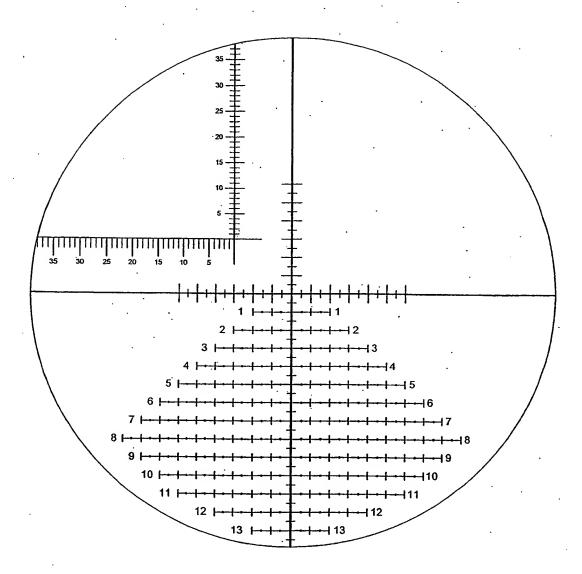
H-1

FIG. 23



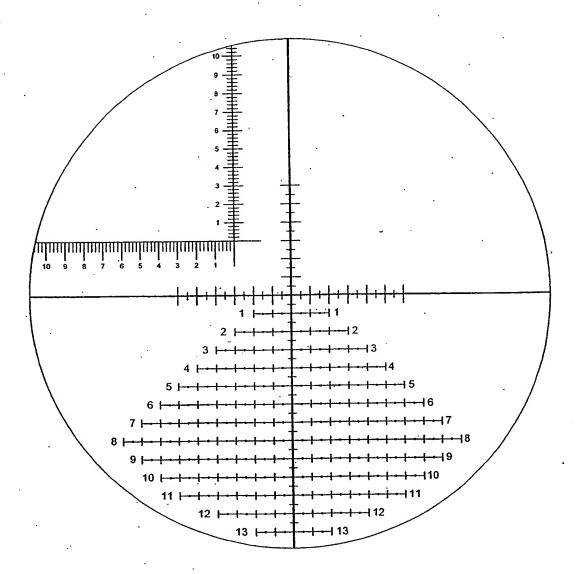
H-2

FIG. 24



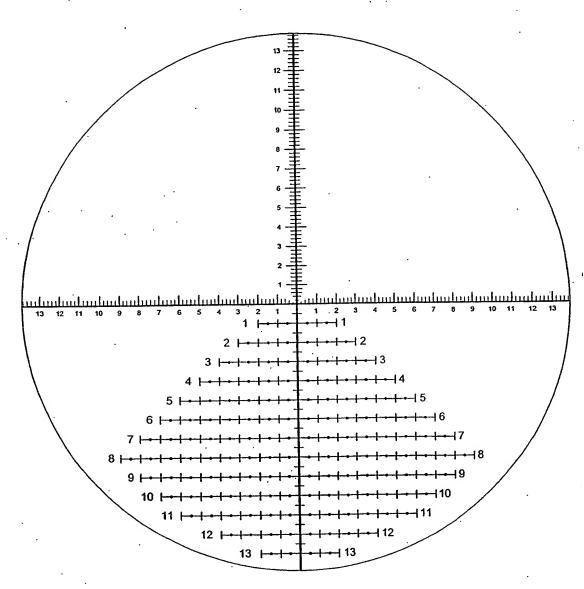
H-3

FIG. 25



H-4





H-5

FIG. 27

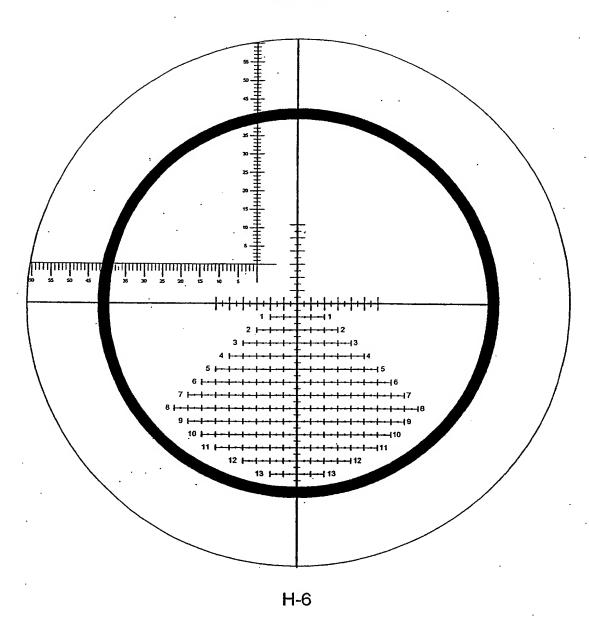
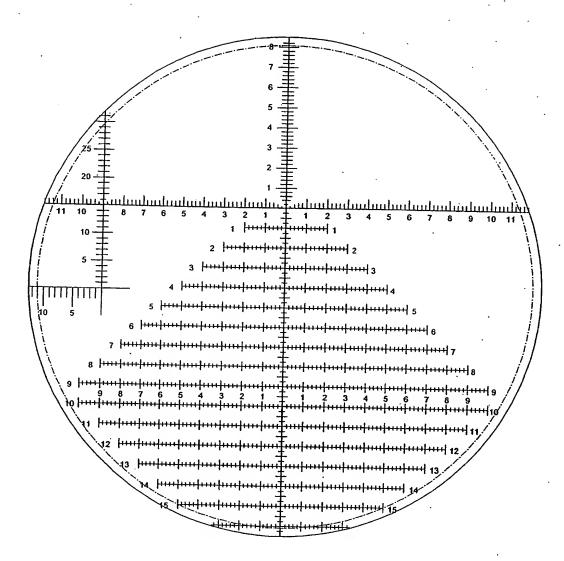


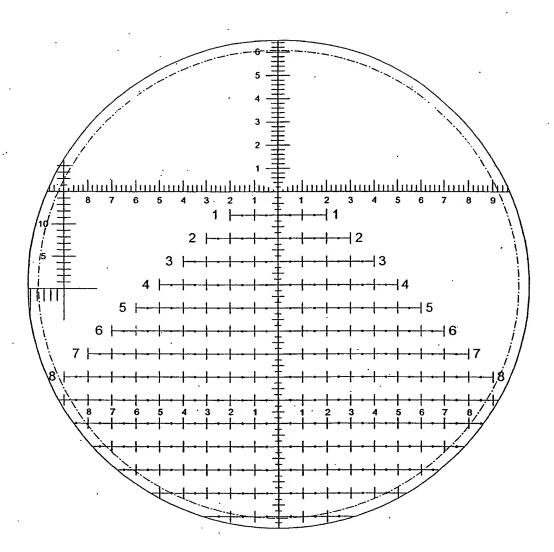
FIG. 28



H-11.

WO 2005/047005 PC 17052004/037947

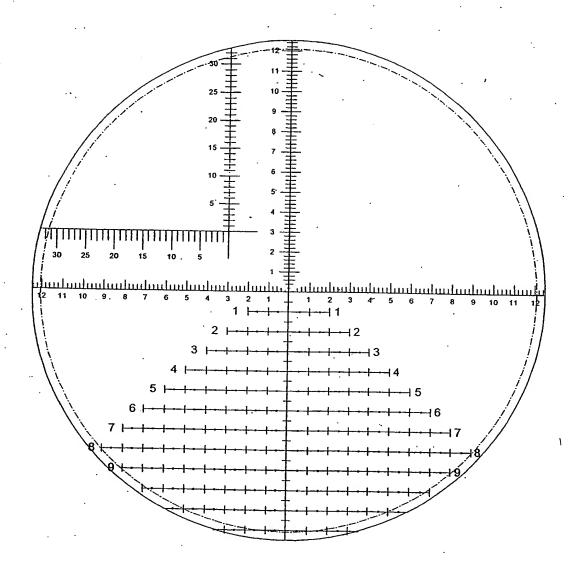
FIG. 29



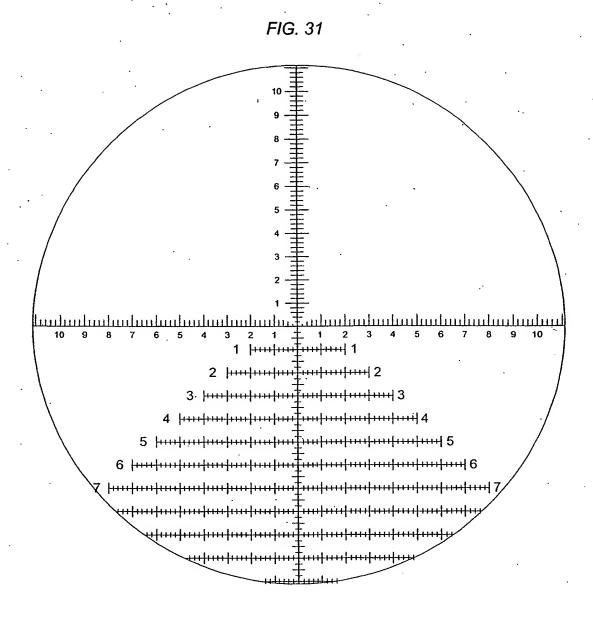
H-12

WO 2000/04/000 PCT/US2004/03/947

FIG. 30

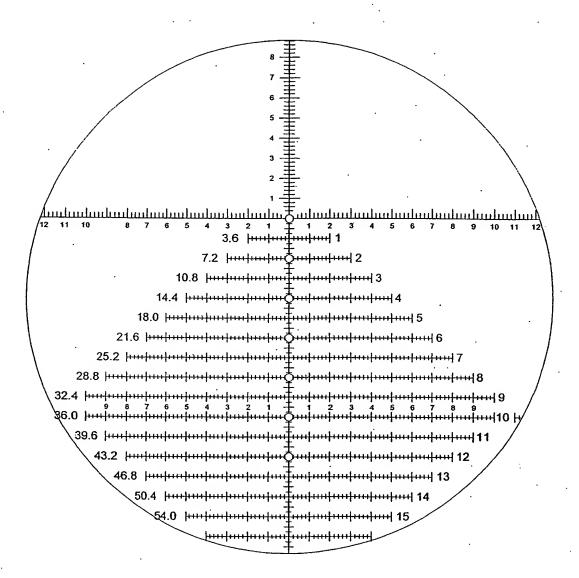


H-13

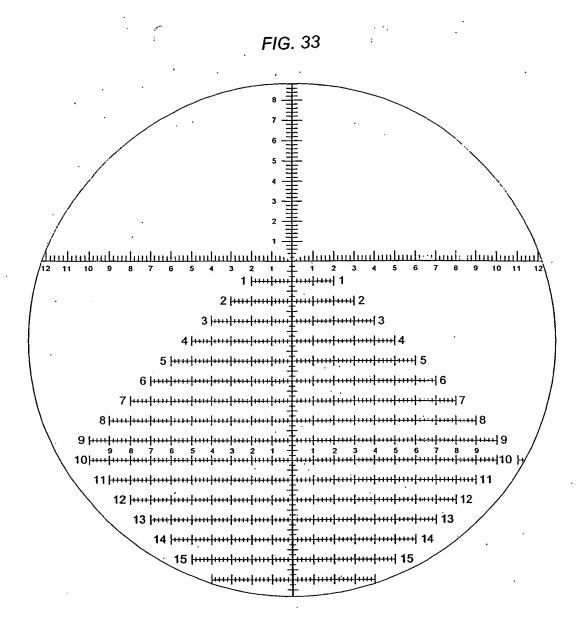


. H-14



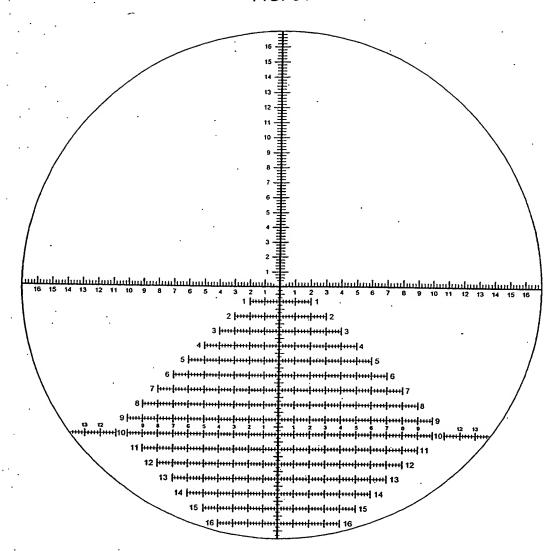


H-15



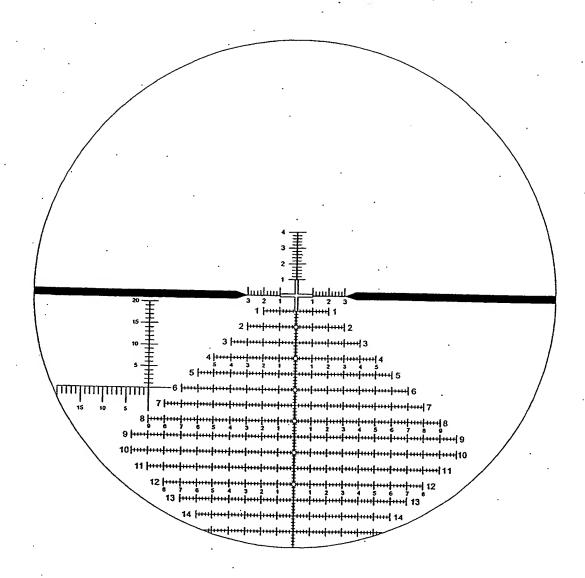
H-19



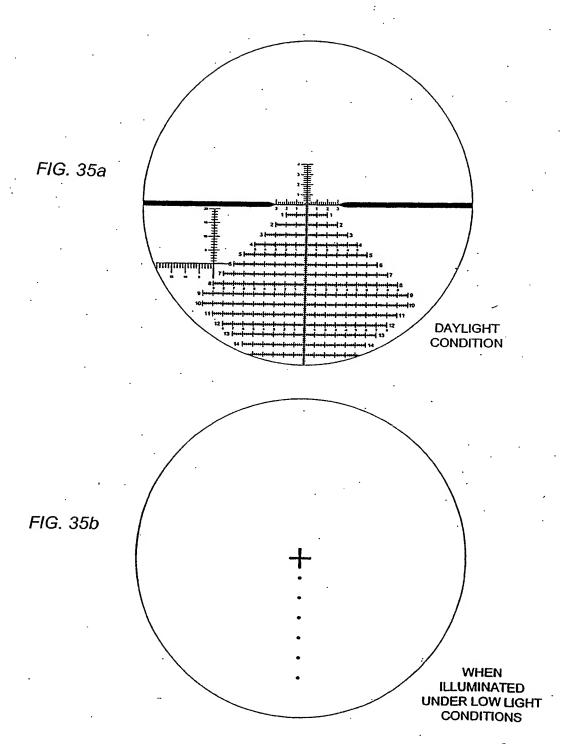


H-21

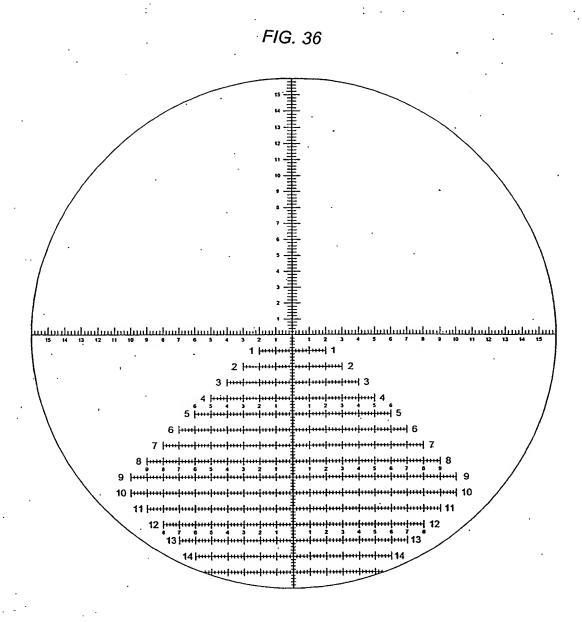
FIG. 35



H-25

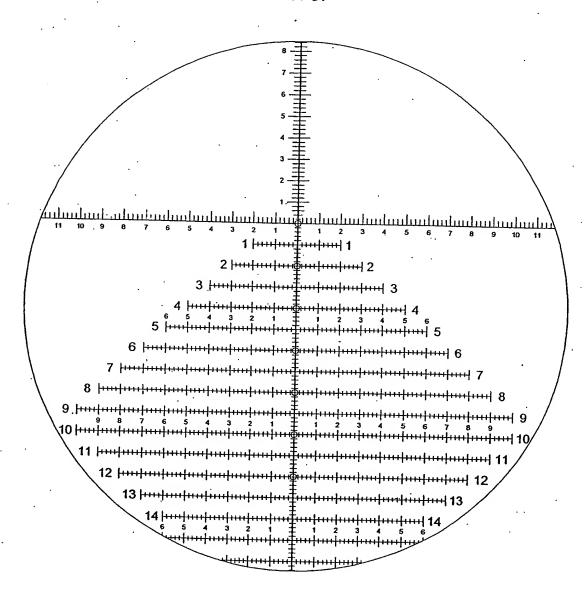


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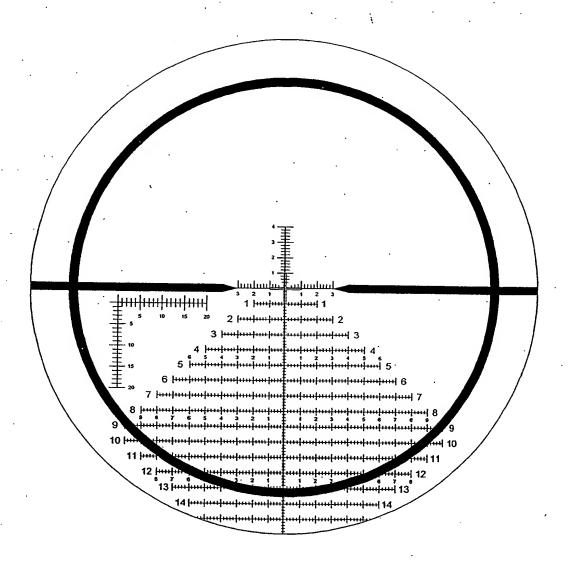
H-31



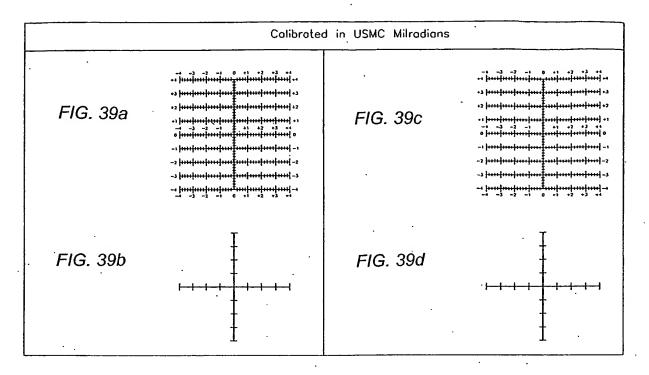


H-39

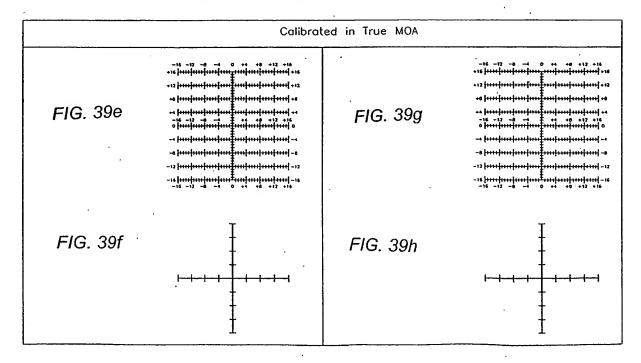
FIG. 38



H-45



Reticle can be used in 1st or 2nd plane.



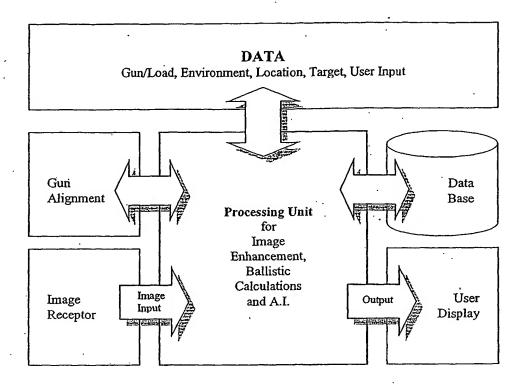


FIG. 40

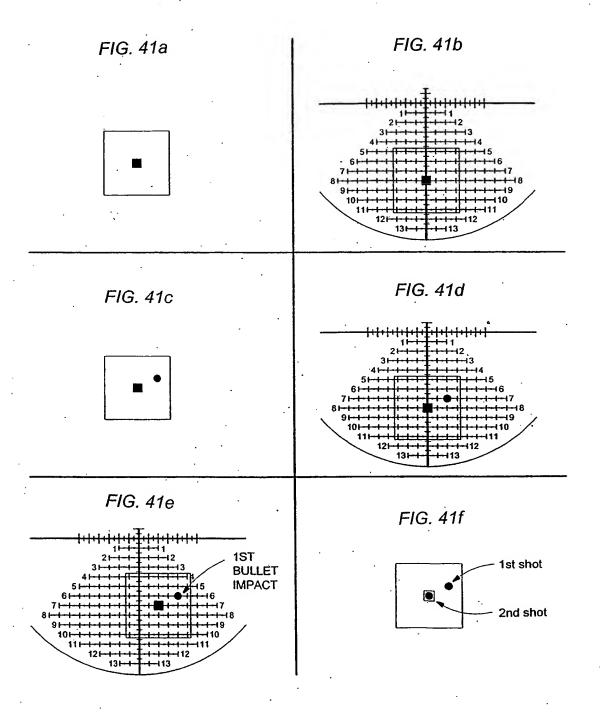
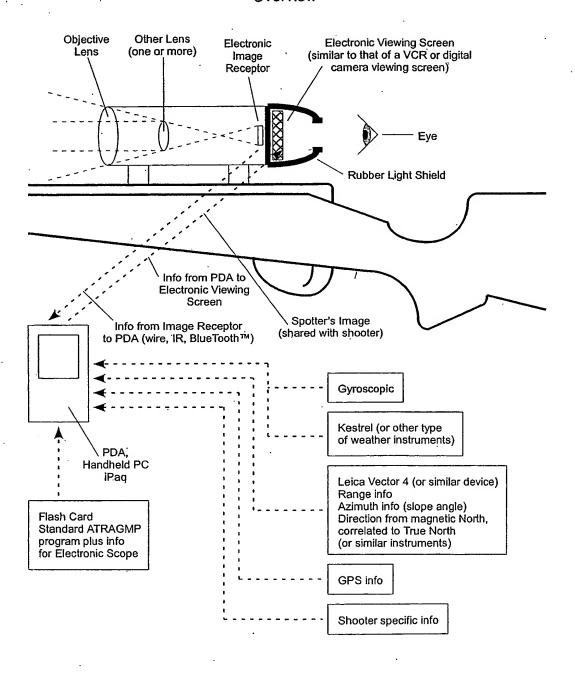
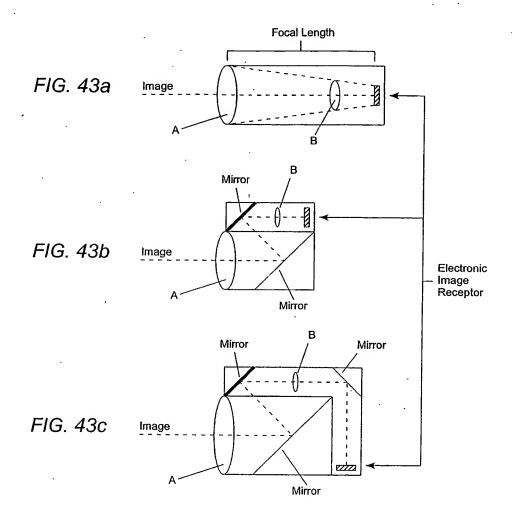


FIG. 42

Overview



Electronic Target Acquisition Device

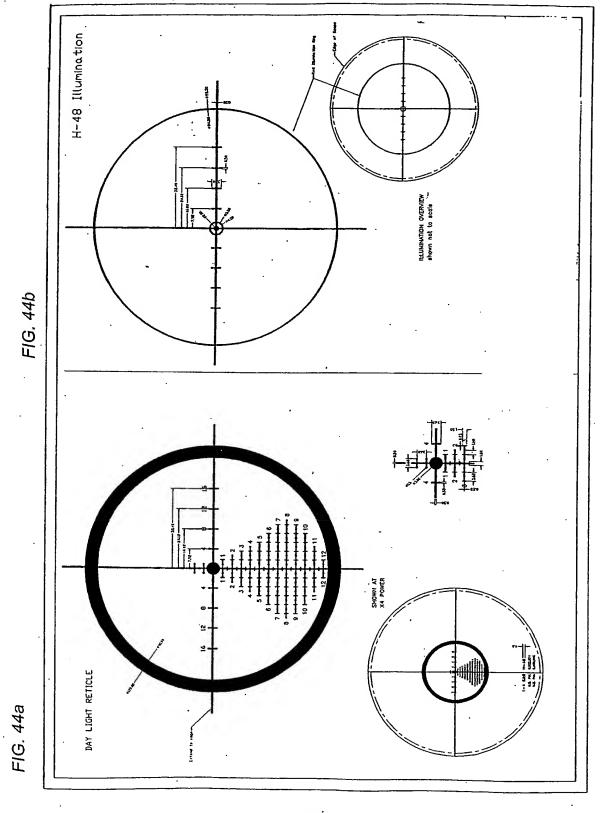


A = Objective lens

B = Additional lenses (one or more)

FIG. 43a = Full focal length (long length tube)

FIG. 43b & FIG. 43c = Mirrors or prisms to reduce scope length



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FIG. 45a

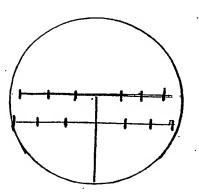
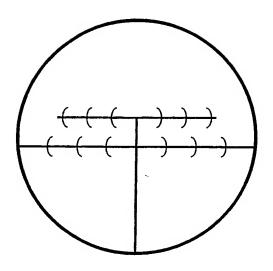


FIG. 45b



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FIG. 45c

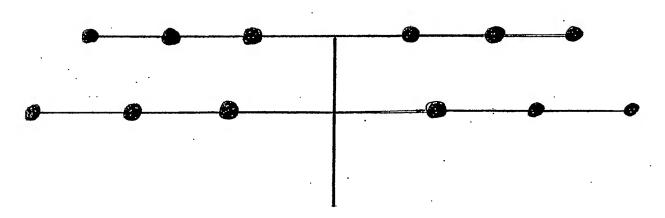


FIG. 45d

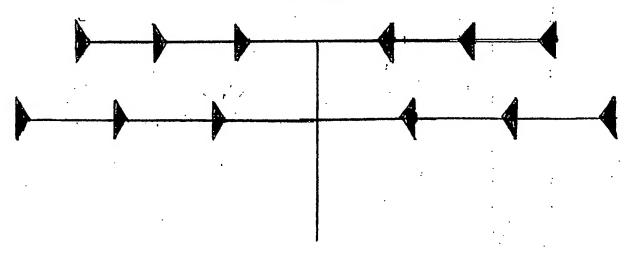


FIG. 45e

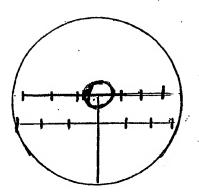


FIG. 45f

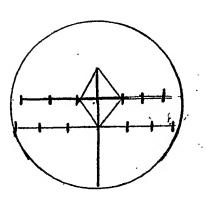
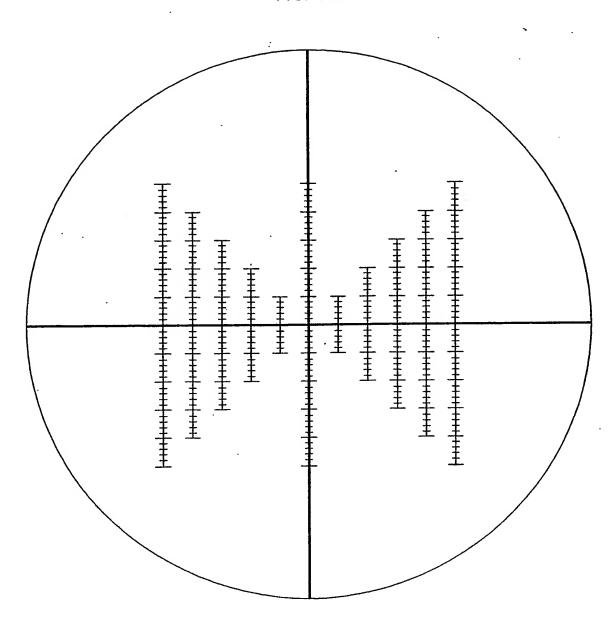
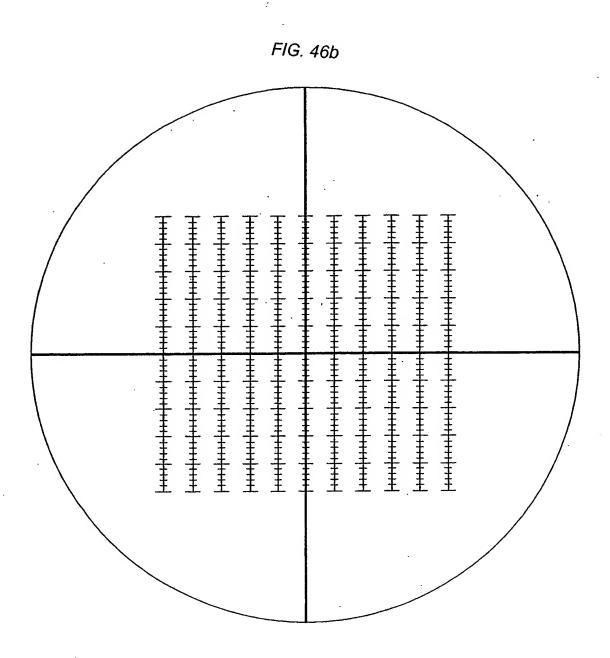


FIG. 46a



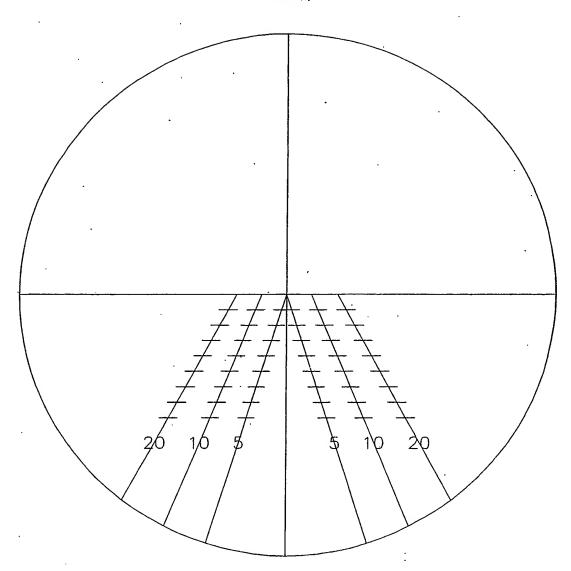
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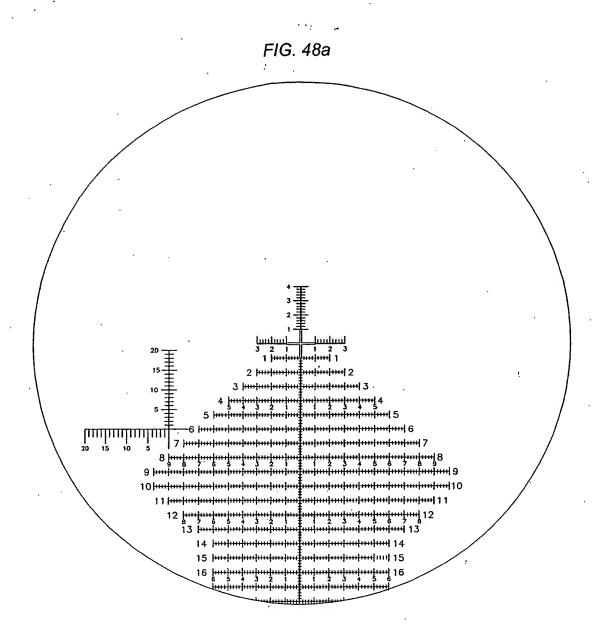
11 0 2003/04/003

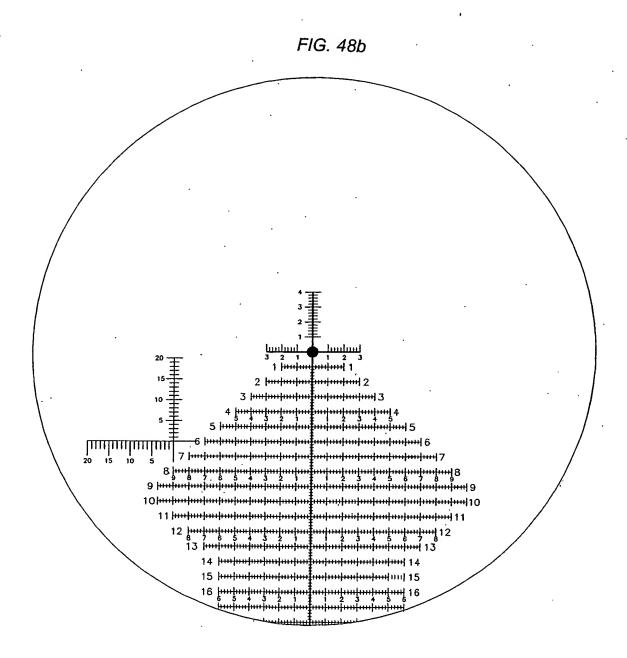
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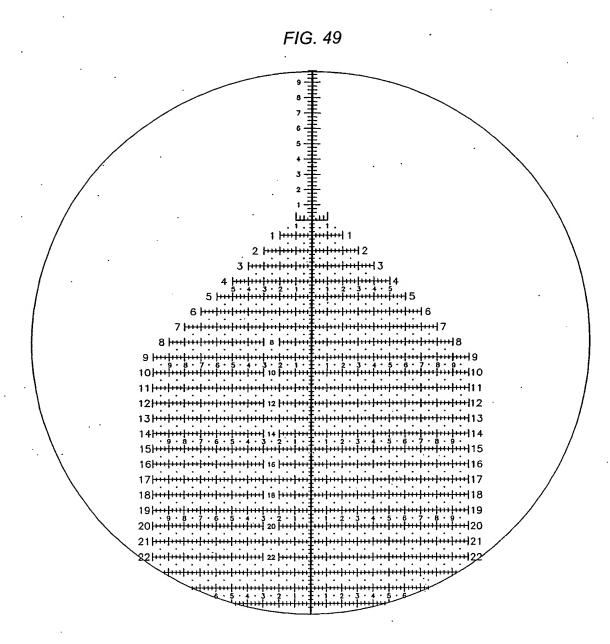


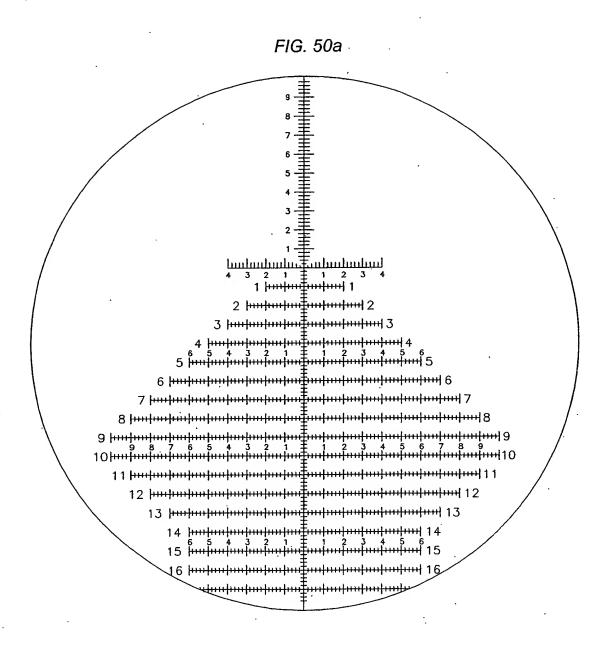


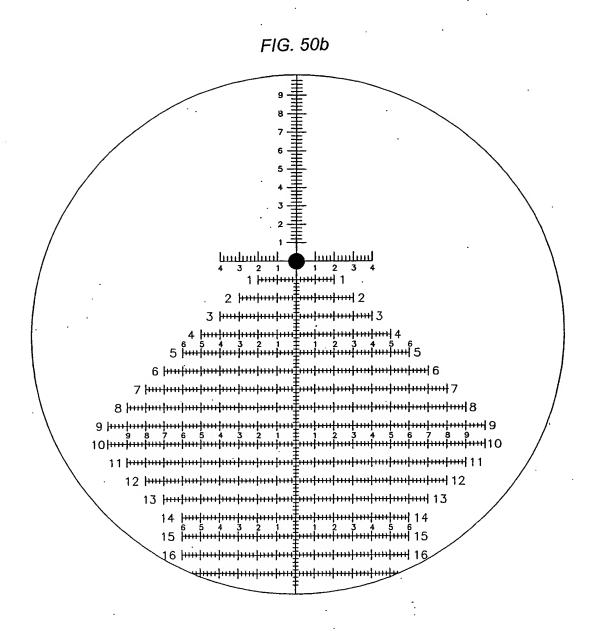
NO 2003/04/003 PCT/US2004/037947

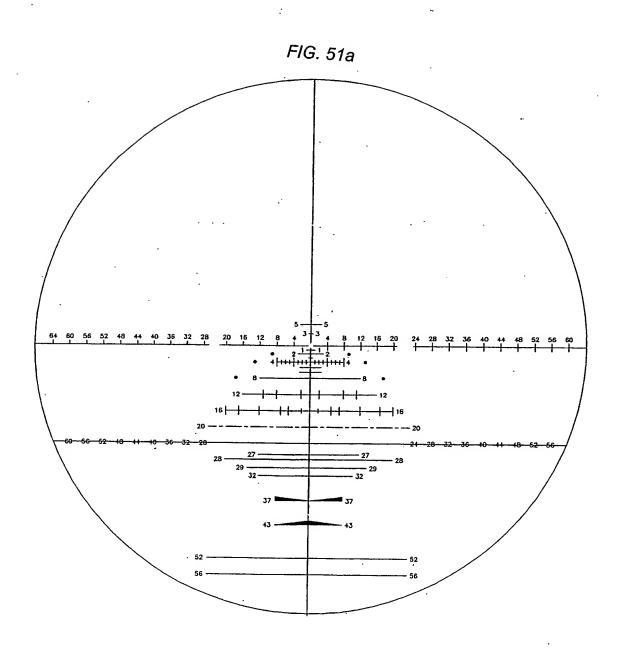












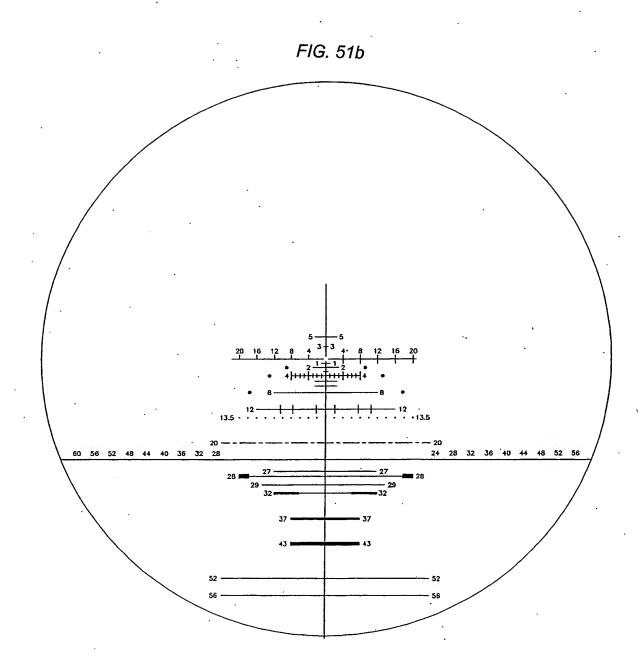
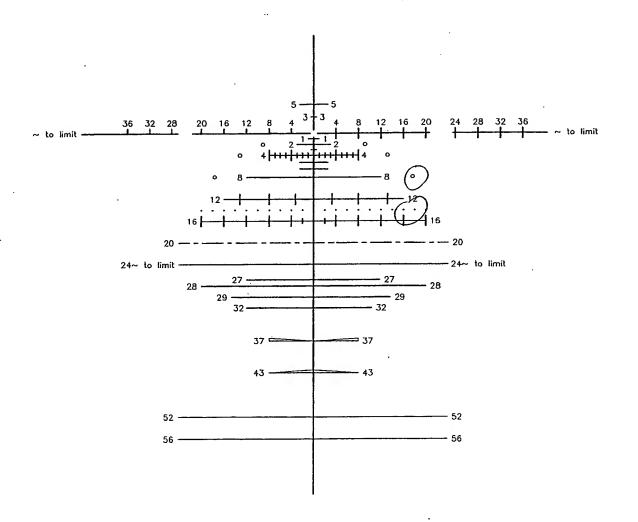
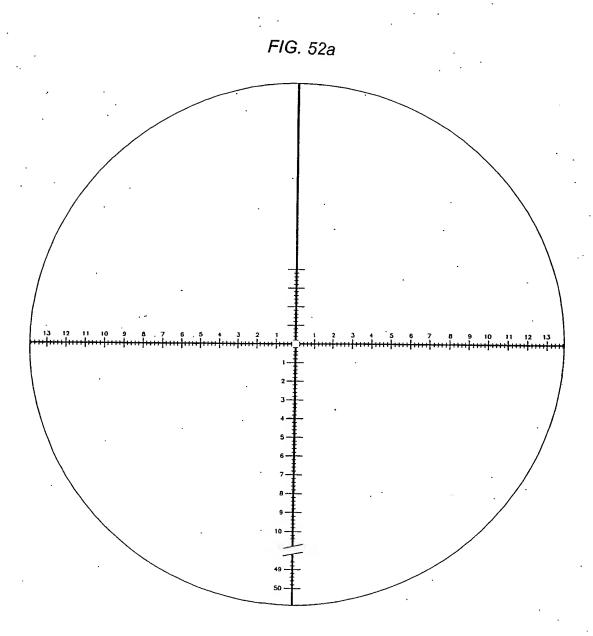
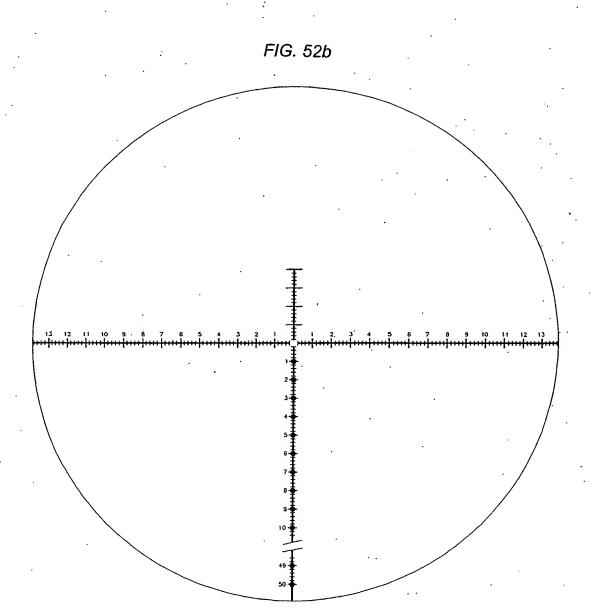
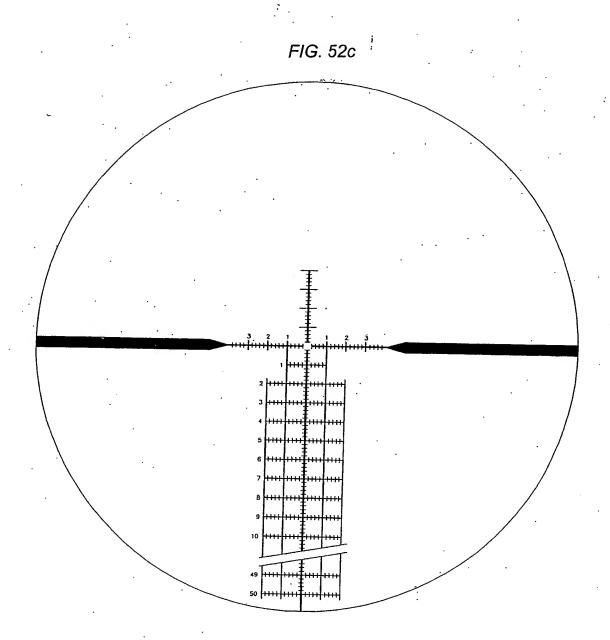


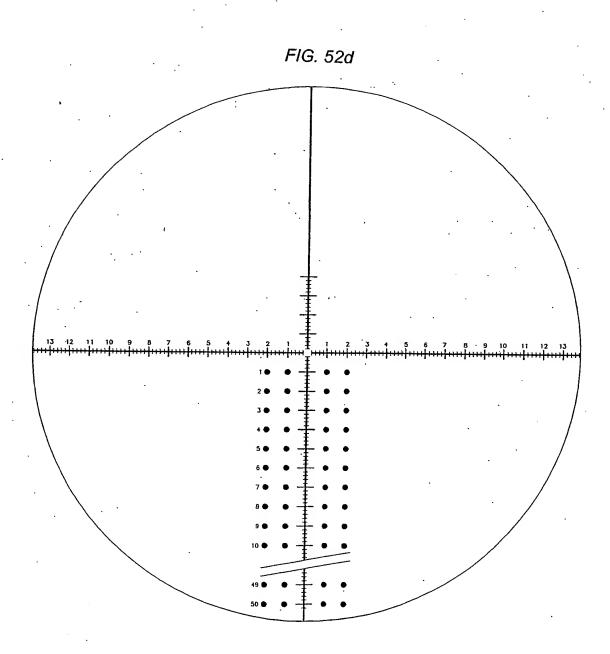
FIG. 51c



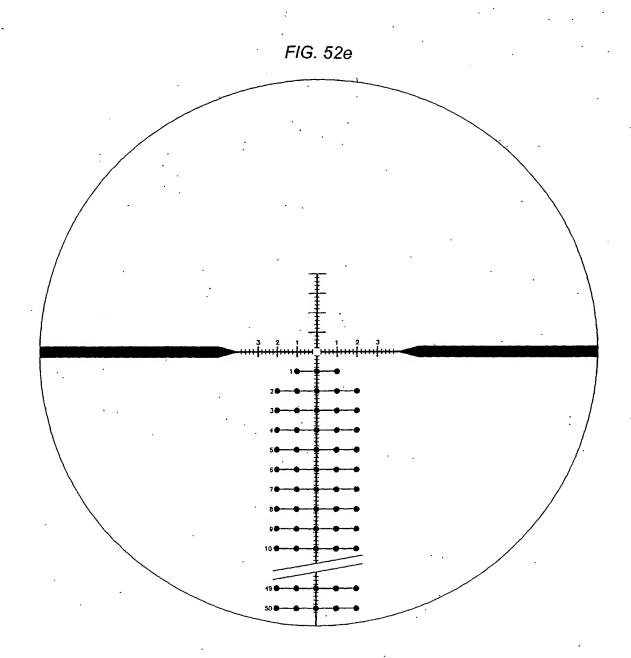




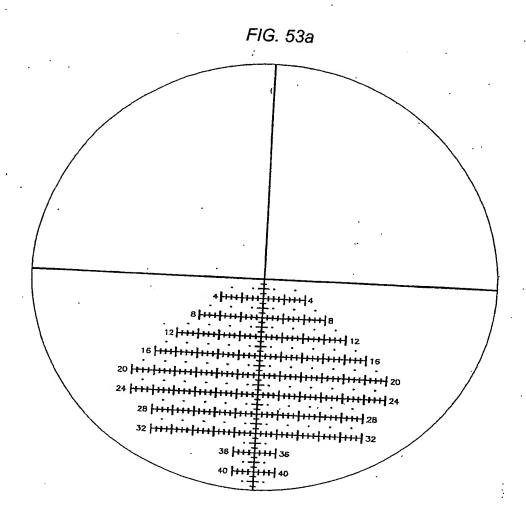




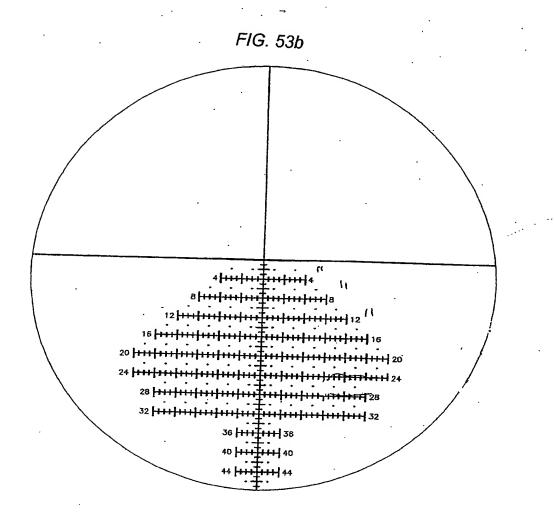
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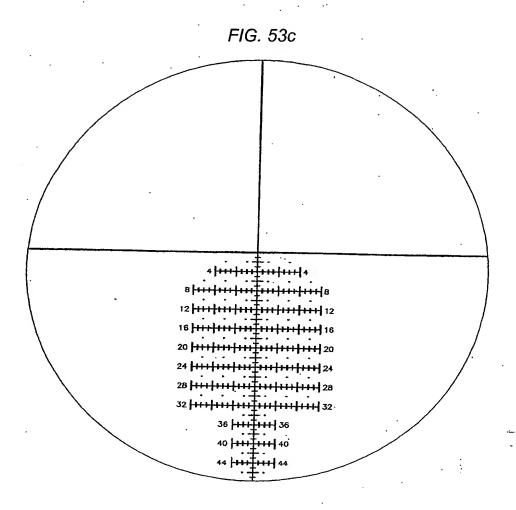


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